

FCC Information and Copyright

This equipment has been tested and found to comply with the limits of a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. There is no guarantee that interference will not occur in a particular installation.

The vendor makes no representations or warranties with respect to the contents here of and specially disclaims any implied warranties of merchantability or fitness for any purpose. Further the vendor reserves the right to revise this publication and to make changes to the contents here of without obligation to notify any party beforehand.

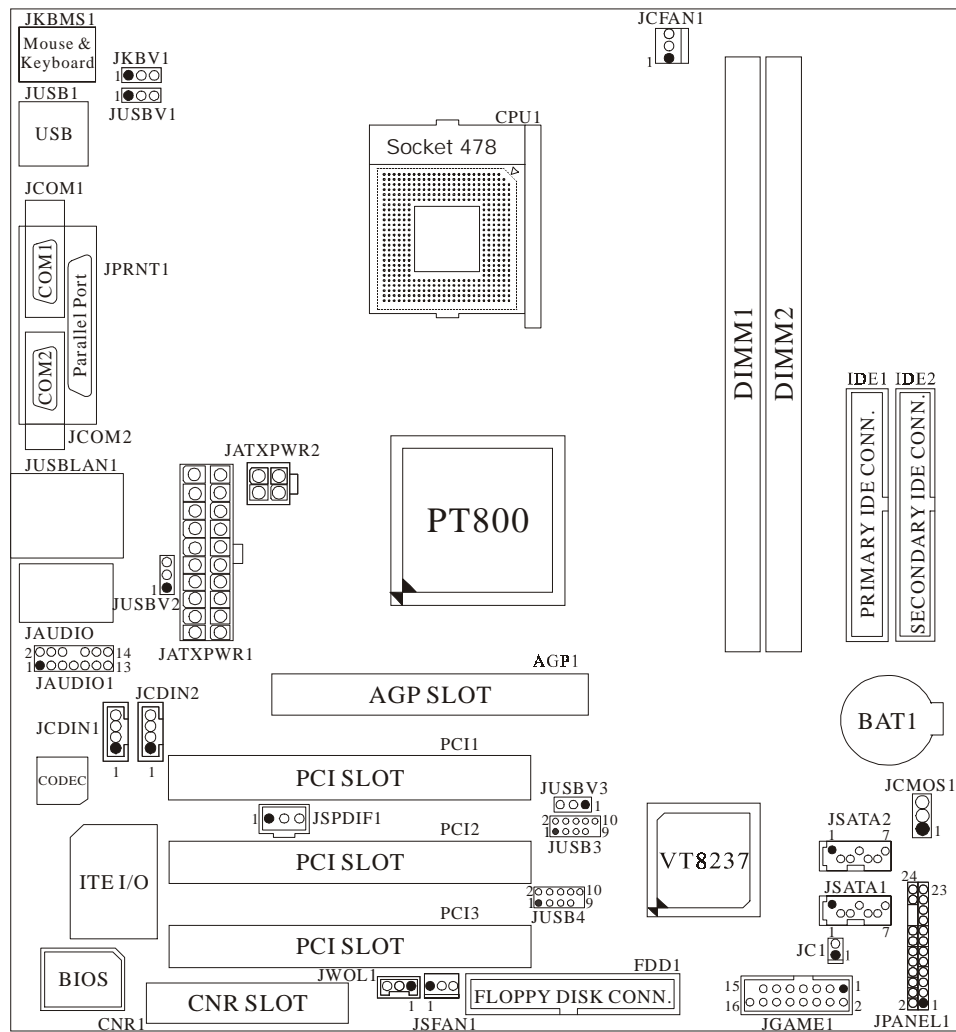
Duplication of this publication, in part or in whole, is not allowed without first obtaining the vendor's approval in writing.

The content of this user's manual is subject to be changed without notice and we will not be responsible for any mistakes found in this user's manual. All the brand and product names are trademarks of their respective companies.

Content

| | |
|--|-----------|
| LAYOUT OF P4VTC (FOR VERSIONS BELOW 1.2 ONLY) | 1 |
| LAYOUT OF P4VTC (FOR VERSIONS ABOVE 1.3 ONLY) | 2 |
| ENGLISH..... | 3 |
| P4VTC Features..... | 3 |
| Package contents..... | 5 |
| How to setup Jumper..... | 5 |
| CPU Installation..... | 6 |
| DDR DIMM Modules: DIMM1/ DIMM2 | 7 |
| Jumpers, Headers, Connectors & Slots | 7 |
| FRANÇAIS | 14 |
| Caractéristique de P4VTC | 14 |
| WARPSPEEDER..... | 16 |
| Introduction | 16 |
| System Requirement..... | 17 |
| Installation | 17 |
| Usage | 18 |
| TROUBLE SHOOTING..... | 26 |
| DÉPANNAGE | 27 |

Layout of P4VTC (for versions below 1.2 only)



※ NOTE: ● represents the first pin.

English

P4VTC Features

A. Hardware

CPU

- Provides Socket 478.
- Supports Intel® Pentium® 4 processor.
- Supports Intel® Pentium® 478 Prescott CPU. (for versions above 1.3 only)
- Supports Hyper-Threading Technology.
- Front Side Bus at 400/ 533/ 800 MHz.

Chipset

- North Bridge: VIA PT800.
- South Bridge: VIA VT8237.

Main Memory

- Supports up to 2 DDR devices.
- Supports 200/266/333/400 MHz DDR devices.
- Maximum memory size of 2GB.

Super I/O

- Chip: ITE IT8705.
- Low Pin Count Interface.
- Provides the most commonly used legacy Super I/O functionality.
- Environment Control initiatives
 - H/W Monitor
 - Fan Speed Controller
 - ITE's "Smart Guardian" software utility.

Slots

- Three 32-bit PCI bus master slots.
- One AGP 4x/ 8x compatible slot.
- One CNR slot.

On Board IDE

- Supports four IDE disk drives.
- Supports PIO Mode 4 and Ultra DMA 33/66/100/133 Bus Master Mode.

Serial ATA

- Chip: integrated in VT8237
- Supports RAID 0, 1.
- Supports 2 Serial ATA (SATA) ports.
 - Compliant with SATA 1.0 specification.
 - Data transfer rates up to 1.5 Gb/s.

LAN

- Chip: VIA VT6103.
- Supports 10 Mb/s and 100 Mb/s auto-negotiation
- Half/ Full duplex capability.

On Board AC'97 Sound Codec (for versions below 1.2 only)

- Chip: CMI9739A.
- Compliant with AC'97 specification.
- Supports 6 channels.

On Board AC'97 Sound Codec (for version 1.3 and above only)

- Chip: CMI9761A.
- Compliant with Intel® AC'97 Rev 2.3 specification.
- Meet with Microsoft® PC2001 requirements.
- Supports 6 channel.
- Supports stereo microphone.
- Supports advanced power management and power saving capabilities.
- Supports S/PDIF I/O functions:
 - Output: 96/ 48 kHz with 24/ 20/ 16 bits
 - Input: 48/ 44.1/ 32kHz with 20/ 16 bits
 - S/PDIF In is featured with interrupt, auto-lock, anti-noise, and anti-distortion functionalities support.

On Board Peripherals

a. Rearside

- 2 serial ports.
- 1 parallel port. (SPP/EPP/ECP mode)
- Audio ports in vertical position.
- 1 LAN jack.
- PS/2 mouse and PS/2 keyboard.
- 4 USB2.0 ports.

b. Front Side

- 1 floppy port supports 2 FDDs with 360K, 720K, 1.2M, 1.44M and 2.88Mbytes.
- 4 USB2.0 ports
- 1 front audio header.
- 2 Serial ATA connectors.

Dimensions

- ATX Form Factor: 24.5 X 22.5cm (W X L)

B. BIOS & Software

BIOS

- Award legal Bios.
 - APM1.2.
 - ACPI.
 - USB Function.
-

Software

- Supports Warpspeeder™, 9th Touch™, FLASHER™, WinFlasher™ and StudioFun! (optional).
- Offers the highest performance for Windows 98 SE, Windows 2000, Windows Me, Windows XP, UNIX series etc.

Package contents

- HDD Cable
- FDD Cable
- User's Manual
- USB Cable (optional)
- Rear I/O Panel for Micro ATX Case (optional)
- Fully Setup Driver CD
- StudioFun! Application CD (optional)
- S/PDIF In/ Out Cable (optional)
- Serial ATA Cable

How to setup Jumper

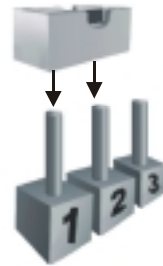
The illustration shows how jumpers are setup. When the Jumper cap is placed on pins, the jumper is "**close**". If no jumper cap is placed on the pins, the jumper is "**open**". The illustration shows a 3-pin jumper whose pin 1 and 2 are "**close**" when jumper cap is placed on these 2 pins.



Jumper close



Jumper open



Pin 1-2 close

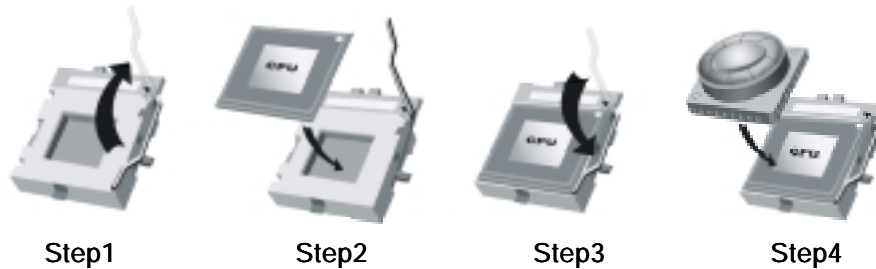
CPU Installation

Step1: Pull the lever sideways away from the socket and then raise the lever up to a 90-degree angle.

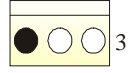
Step2: Look for the white dot/cut edge. The white dot/cut edge should point towards the lever pivot. The CPU will fit only in the correct orientation.

Step3: Hold the CPU down firmly, and then close the lever.

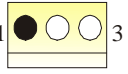
Step4: Put the CPU fan on the CPU and buckle it. Connect the CPU fan power cable to the JCFAN1. This completes the installation.



CPU Fan Header: JCFAN1

|  JCFAN1 | Pin No. | Assignment |
|---|---------|--------------------|
| | 1 | Ground |
| | 2 | +12V |
| | 3 | FAN rpm rate Sense |

System Fan Header: JSFAN1

|  JSFAN1 | Pin No. | Assignment |
|---|---------|--------------------|
| | 1 | Ground |
| | 2 | +12V |
| | 3 | FAN rpm rate Sense |

DDR DIMM Modules: DIMM1/ DIMM2

DRAM Access Time: 2.5V Unbuffered DDR 200/266/333/400 MHz Type required.

DRAM Type: 64MB/ 128MB/ 256MB/ 512MB/ 1GB DIMM Module (184 pin)

Total Memory Size with Unbuffered DIMMs

| DIMM Socket Location | DDR Module | Total Memory Size (MB) |
|----------------------|--------------------------------------|------------------------|
| DIMMB1 | 64MB/ 128MB/ 256MB/ 512MB/ 1GB *1 | Max is 2 GB |
| DIMMB2 | 64MB/ 128MB/ 256MB/ 512MB/ 1GB *1 | |

Only for reference

Installing DDR Module

1. Unlock a DIMM slot by pressing the retaining clips outward. Align the DIMM to the slot in the way the notch of the DIMM matches the break of the slot.
2. Insert the DIMM firmly and vertically into the slot until the retaining chip snap back in place and the DIMM is properly seated.



Jumpers, Headers, Connectors & Slots

Floppy Disk Connector: FDD1

The motherboard provides a standard floppy disk connector that supports 360K, 720K, 1.2M, 1.44M and 2.88M floppy disk types. This connector supports the provided floppy drive ribbon cables.

Hard Disk Connectors: IDE1/ IDE2

The motherboard has a 32-bit Enhanced PCI IDE Controller that provides PIO Mode 0~4, Bus Master, and Ultra DMA 33/ 66/ 100/ 133 functionality. It has two HDD connectors IDE1 (primary) and IDE2 (secondary).

The IDE connectors can connect a master and a slave drive, so you can connect up to four hard disk drives. The first hard drive should always be connected to IDE1.

Peripheral Component Interconnect Slots: PCI 1-3

This motherboard is equipped with 3 standard PCI slots. PCI stands for Peripheral

Component Interconnect, and it is a bus standard for expansion cards. This PCI slot is designated as 32 bits.

Accelerated Graphics Port Slot: AGP1

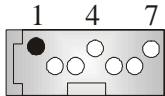
Your monitor will attach directly to that video card. This motherboard supports video cards for PCI slots, but it is also equipped with an Accelerated Graphics Port (AGP). An AGP card will take advantage of AGP technology for improved video efficiency and performance, especially with 3D graphics.

Communication Network Riser Slot: CNR1

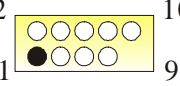
The CNR specification is an open Industry Standard Architecture, and it defines a hardware scalable riser card interface, which supports modem only.

Serial ATA Connector: JSATA1/ JSATA2

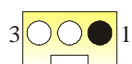
The motherboard has a PCI to SATA Controller with 2 channels SATA interface, it satisfies the SATA 1.0 spec and with transfer rate at 1.5Gb/s.

|  JSATA1/ JSATA2 | Pin | Assignment | Pin | Assignment |
|---|-----|------------|-----|------------|
| | 1 | Ground | 2 | TX+ |
| | 3 | TX- | 4 | Ground |
| | 5 | RX- | 6 | RX+ |
| | 7 | Ground | | |


Front USB Header: JUSB3/ JUSB4

|  JUSB3/4 | Pin | Assignment | Pin | Assignment |
|--|-----|------------|-----|------------|
| | 1 | +5V(fused) | 2 | +5V(fused) |
| | 3 | USBP4- | 4 | USBP5- |
| | 5 | USBP4+ | 6 | USBP5+ |
| | 7 | Ground | 8 | Ground |
| | 9 | KEY | 10 | NA |

Wake On LAN Header: JWOL1

|  JWOL1 | Pin | Assignment |
|--|-----|-------------|
| | 1 | +5V Standby |
| | 2 | Ground |
| | 3 | Wake up |

Case Open Connector: JC1

|  JC1 | Pin | Assignment |
|--|-----|------------------|
| | 1 | Case Open Signal |

| | | |
|------------|---|--------|
| JC1 | 2 | Ground |
|------------|---|--------|

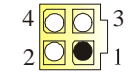
Front Panel Connector: JPANEL1

| Pin | Assignment | Function | Pin | Assignment | Function |
|-----|---------------|-------------------|-----|---------------|-----------------|
| 1 | +5V | Speaker Connector | 2 | Sleep Control | Sleep Button |
| 3 | NA | | 4 | Ground | |
| 5 | NA | | 6 | NA | POWER LED |
| 7 | Speaker | | 8 | Power LED (+) | |
| 9 | HDD LED (+) | Hard Drive LED | 10 | Power LED (+) | |
| 11 | HDD LED (-) | | 12 | Power LED (-) | Power-on Button |
| 13 | Ground | Reset Button | 14 | Power Button | |
| 15 | Reset Control | | 16 | Ground | |
| 17 | NA | IrDA Connector | 18 | KEY | IrDA Connector |
| 19 | NA | | 20 | KEY | |
| 21 | +5V | | 22 | Ground | |
| 23 | IRTX | | 24 | IRRX | |



Power Connectors: JATXPWR1/ JATXPWR2

| | PIN | Assignment | PIN | Assignment |
|--|-----|------------|-----|------------|
| | 1 | +3.3V | 11 | +3.3V |
| | 2 | +3.3V | 12 | -12V |
| | 3 | Ground | 13 | Ground |
| | 4 | +5V | 14 | PS_ON |
| | 5 | Ground | 15 | Ground |
| | 6 | +5V | 16 | Ground |
| | 7 | Ground | 17 | Ground |
| | 8 | PW_OK | 18 | -5V |

| | | | | |
|--|----|------------------------|----|-----|
| | 9 | Standby Voltage +5V | 19 | +5V |
| | 10 | +12V | 20 | +5V |

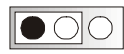
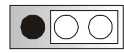
|  JATXPWR2 | PIN | Assignment | PIN | Assignment |
|--|-----|------------|-----|------------|
| | 1 | +12V | 3 | Ground |
| | 2 | +12V | 4 | Ground |

Power Source Selection for Keyboard and Mouse: JKBV1

| JKBV1 | Assignment | Description |
|--|---------------------|---|
|  Pin 1-2 close | +5V | +5V for keyboard and mouse |
|  Pin 2-3 close | +5V Standby Voltage | PS/2 Mouse and PS/2 Keyboard are powered with +5V standby voltage |


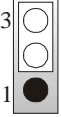
Note: In order to support this function "Power-on the system via keyboard and mouse, "JKBV1" jumper cap should be placed on pin 2-3.

Power Source Selection for USB: JUSBV1/ JUSBV2/ JUSBV3

| JUSBV1/JUSBV2/ JUSBV3 | Assignment | Description |
|--|---------------------|---|
|  Pin 1-2 close | +5V | JUSBV1: 5V for USB located at the JUSB1 connector port JUSBV2: 5V for USB located at the JUSBLAN1 port JUSBV3: 5V for USB located at the JUSB3/4 ports |
|  Pin 2-3 close | +5V Standby Voltage | JUSBV1: JUSB1 port powered with standby voltage of 5V JUSBV2: JUSBLAN1 port powered with standby voltage of 5V JUSBV3: JUSB3/4 ports powered with standby voltage of 5V |

Note: In order to support this function "Power-on the system via USB device", "JUSBV1/JUSBV2/JUSBV3" jumper cap should be placed on pin 2-3 respectively.

Clear CMOS Jumper: JCMOS1

| JCMOS1 | Assignment |
|--|----------------------------|
|  <p>Pin 1-2 Close</p> | Normal Operation (default) |
|  <p>Pin 2-3 Close</p> | Clear CMOS Data |

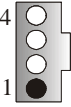


The following procedures are for resetting the BIOS password. It is important to follow these instructions closely.

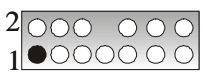
※ Clear CMOS Procedures:

1. Remove AC power line.
2. Set the jumper to "Pin 2-3 close".
3. Wait for five seconds.
4. Set the jumper to "Pin 1-2 close".
5. Power on AC.
6. Reset your desired password or clear the CMOS data.


CD-ROM Audio-In Header: JCDIN1/ (JCDIN2=>for versions below 1.2)

|  <p>JCDIN1/ 2</p> | Pin | Assignment |
|--|-----|---------------------|
| | 1 | Left Channel Input |
| | 2 | Ground |
| | 3 | Ground |
| | 4 | Right Channel Input |

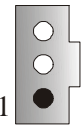
Front Panel Audio Header: JAUDIO1

|  | | | | JAUDIO1 | | | |
|---|-----------------------------------|-----|-----------------------------------|----------------|--|--|--|
| Pin | Assignment | Pin | Assignment | | | | |
| 1 | Mic In/ Center | 2 | Ground | | | | |
| 3 | Mic Power/ Bass | 4 | Audio Power | | | | |
| 5 | Right Line Out/ Right Speaker Out | 6 | Right Line Out/ Right Speaker Out | | | | |
| 7 | Reserved | 8 | Key | | | | |
| 9 | Left Line Out/ Left Speaker Out | 10 | Left Line Out/ Left Speaker Out | | | | |
| 11 | Right Line In/ Right Rear Speaker | 12 | Right Line In/ Right Rear Speaker | | | | |
| 13 | Left Line In/ Left Rear Speaker | 14 | Left Line In/ Left Rear Speaker | | | | |

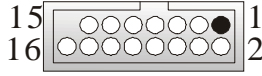
Digital Audio Connector: JSPDIF_OUT1

|  | Pin | Assignment |
|---|-----|------------|
| | 1 | +5V |
| | 2 | SPDIF_OUT |
| | 3 | Ground |

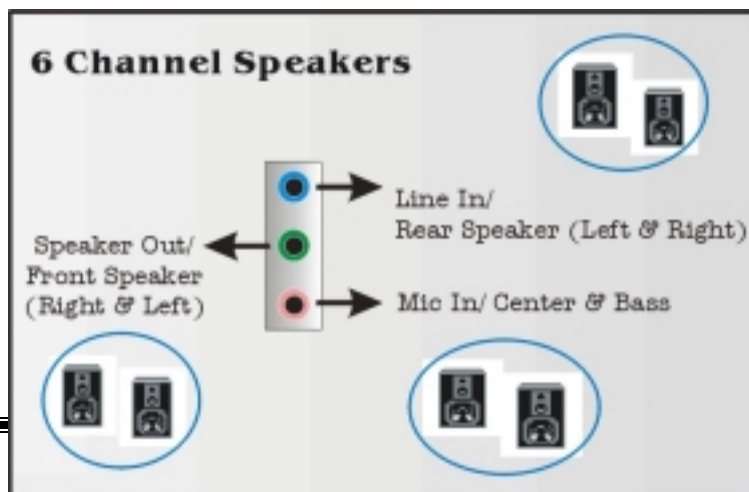
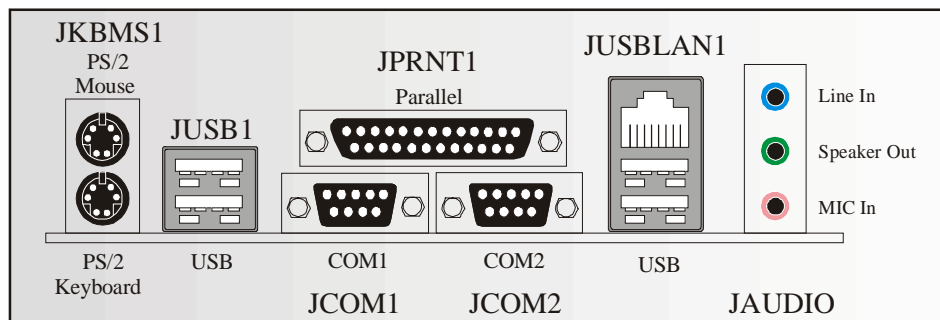
Digital Audio Connector: JSPDIF_IN1 (for versions above 1.3 only)

|  | Pin | Assignment |
|---|-----|------------|
| | 1 | +5V |
| | 2 | SPDIF_IN |
| | 3 | Ground |

Game Port Header: JGAME1

|  | | | | JGAME1 | | | |
|---|-------------------------|-----|-------------------------|---------------|--|--|--|
| Pin | Assignment | Pin | Assignment | | | | |
| 1 | +5V | 2 | +5V | | | | |
| 3 | Joystick B Button 1 | 4 | Joystick A Button 1 | | | | |
| 5 | Joystick B Coordinate X | 6 | Joystick A Coordinate X | | | | |
| 7 | MIDI Output | 8 | Ground | | | | |
| 9 | Joystick B Coordinate Y | 10 | Ground | | | | |
| 11 | Joystick B Button 2 | 12 | Joystick A Coordinate Y | | | | |
| 13 | MIDI Input | 14 | Joystick A Button 2 | | | | |
| 15 | NA | 16 | +5V | | | | |

Back Panel Connectors



Français

Caractéristique de P4VTC

A. Matériel

Processeur

- Socket 478.
- Supporte processeur Intel® Pentium® 4.
- Supporte processeur Intel® Pentium® 478 Prescott. (seulement pour version au-dessus de 1.3)
- Supporte la technologie Hyper-Threading.
- FSB 400/ 533/ 800 MHz.

Jeu des Puces

- North Bridge: VIA PT800.
- South Bridge: VIA VT8237.

Mémoire principale

- Prise en charge de deux périphériques 2 DDR.
- Prise en charge des périphériques DDR 200/266/333/400 MHz.
- Taille maximale de la mémoire :2Go.

Super E/S

- Puce: ITE IT8705.
- Interface de Comptage de Broche Faible.
- Offre la fonctionnalité Super E/S héritée la plus couramment utilisée.
- Initiatives de Contrôle d'Environnement,
 - Moniteur H/W
 - Fonction "Smart Guardian" de ITE

Slots

- Trois slots de maîtrise de bus PCI 32 bits.
- Un slot CNR.
- Un slot compatible AGP 4X/ 8X.

IDE intégré

- Supporte quatre lecteurs de disque IDE.
- Supporte PIO Mode 4 et Ultra DMA 33/66/100/ 133 Bus Master Mode.

Serial ATA

- Puce: intégré dans VT8237.
- Supporte RAID 0, 1.
- Supporte 2 ports Serial ATA (SATA).
 - Conforme avec des spécifications de SATA 1.0.
 - Vitesse de transfert jusqu'à 1.5 Gb/s.

LAN

- Puce: VIA VT6103.
- Supporte le fonctionnement en auto-négociation 10 Mb/s et 100 Mb/s.
- Capacité Half/ Full duplex.

Codec Son AC'97 intégré (seulement pour version au-dessous de 1.2)

- Puce: CMI9739A.
- Conforme aux spécifications AC'97.
- Supporte 6 canaux.

Codec Son AC'97 intégré (seulement pour version au-dessus de 1.3)

- Puce: CMI9761A.
- Conforme aux spécifications Intel® AC'97 Rev 2.3.
- Répond aux exigences de Microsoft® PC2001.
- Supporte 6 canaux.
- Supporte le microphone stéréo.
- Gestion d'alimentation avancée et capacités d'économie d'énergie.

Périphériques intégré

a. Côté arrière

- 2 ports série.
- 1 port parallèle. (mode SPP/EPP/ECP)
- 1 port audio en position verticale.
- 1 port LAN.
- 1 souris PS/2.
- 1 clavier PS/2.
- 4 ports USB2.0.

b. Côté frontal

- 1 port disquette prenant en charge 2 FDD avec 360K, 720K, 1.2M, 1.44M et 2.88 Mo.
- 4 ports USB2.0.
- 1 connecteur front audio.
- 2 connecteurs Serial ATA.

Dimensions

- Facteur de Forme ATX: 24.5 X 22.5cm (Larg X L)

B. BIOS & Software

BIOS

-
- Award legal Bios.
 - APM1.2.
 - ACPI.
 - Fonction USB.

Logiciel

- Supporte Warpspeeder™, 9th Touch™, FLASHER™, WinFlasher™.
- Offrant la meilleure performance pour Windows 98 SE, Windows 2000, Windows Me, Windows XP, UNIX series, etc.



WarpSpeeder

Introduction

[WarpSpeeder™], a new powerful control utility, features three user-friendly functions including Overclock Manager, Overvoltage Manager, and Hardware Monitor.

With the Overclock Manager, users can easily adjust the frequency they prefer or they can get the best CPU performance with just one click. The Overvoltage Manager, on the other hand, helps to power up CPU core voltage and Memory voltage. The cool Hardware Monitor smartly indicates the temperatures, voltage and CPU fan speed as well as the chipset information. Also, in the About panel, you can get detail descriptions about BIOS model and chipsets. In addition, the frequency status of CPU, memory, AGP and PCI along with the CPU speed are synchronically shown on our main panel.

Moreover, to protect users' computer systems if the setting is not appropriate when testing and results in system fail or hang, [WarpSpeeder™] technology assures the system stability by automatically rebooting the computer and then restart to a speed that is either the original system speed or a suitable one.

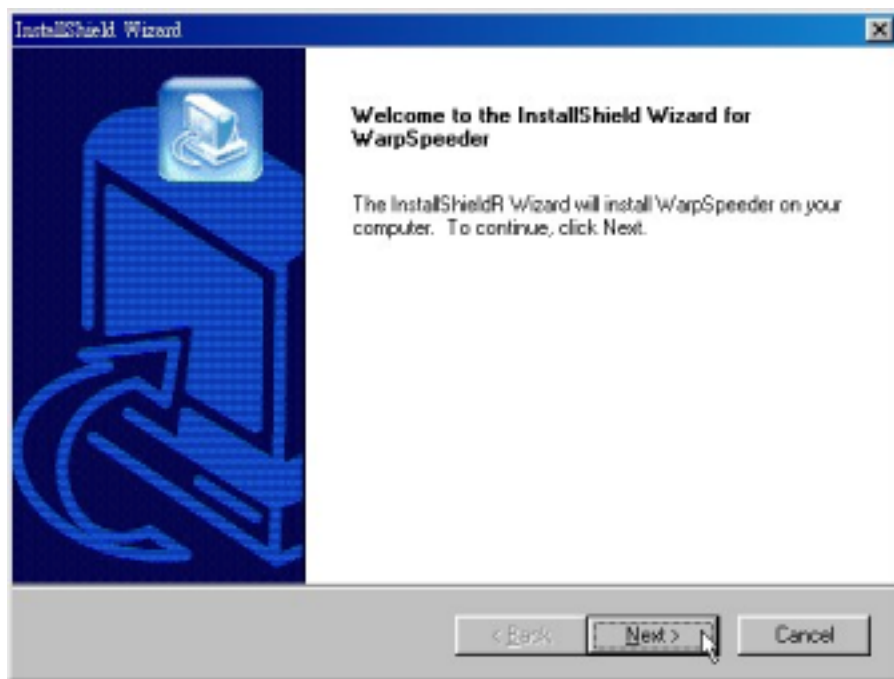
System Requirement

OS Support: Windows 98 SE, Windows Me, Windows 2000, Windows XP

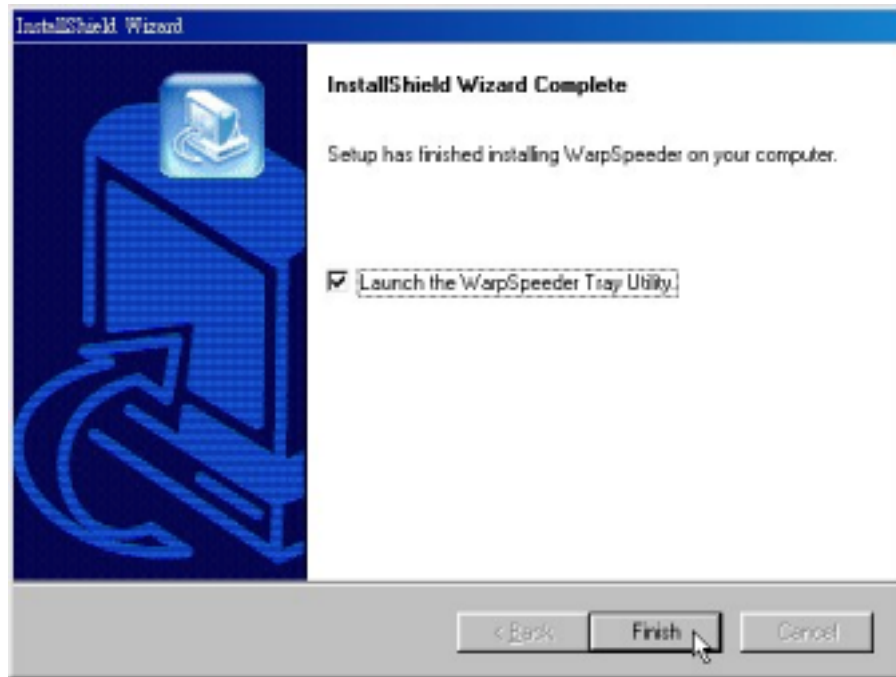
DirectX: DirectX 8.1 or above. (The Windows XP operating system includes DirectX 8.1. If you use Windows XP, you do not need to install DirectX 8.1.)

Installation

1. Execute the setup execution file, and then the following dialog will pop up. Please click “Next” button and follow the default procedure to install.



2. When you see the following dialog in setup procedure, it means setup is completed. If the “Launch the WarpSpeeder Tray Utility” checkbox is checked, the Tray Icon utility and [WarpSpeeder™] utility will be automatically and immediately launched after you click “Finish” button.



Usage

The following figures are just only for reference, the screen printed in this user manual will change according to your motherboard on hand.

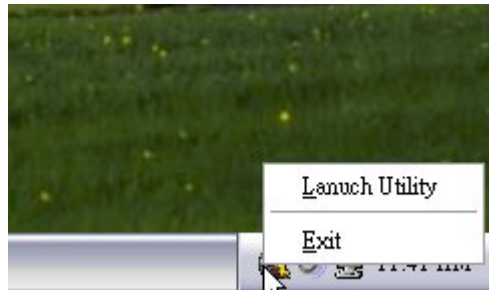
[WarpSpeeder™] includes 1 tray icon and 5 panels:

1. Tray Icon:

Whenever the Tray Icon utility is launched, it will display a little tray icon on the right side of Windows Taskbar.



This utility is responsible for conveniently invoking [WarpSpeeder™] Utility. You can use the mouse by clicking the left button in order to invoke [WarpSpeeder™] directly from the little tray icon or you can right-click the little tray icon to pop up a popup menu as following figure. The “Launch Utility” item in the popup menu has the same function as mouse left-click on tray icon and “Exit” item will close Tray Icon utility if selected.



2. Main Panel

If you click the tray icon, [WarpSpeeder™] utility will be invoked. Please refer do the following figure; the utility's first window you will see is Main Panel.

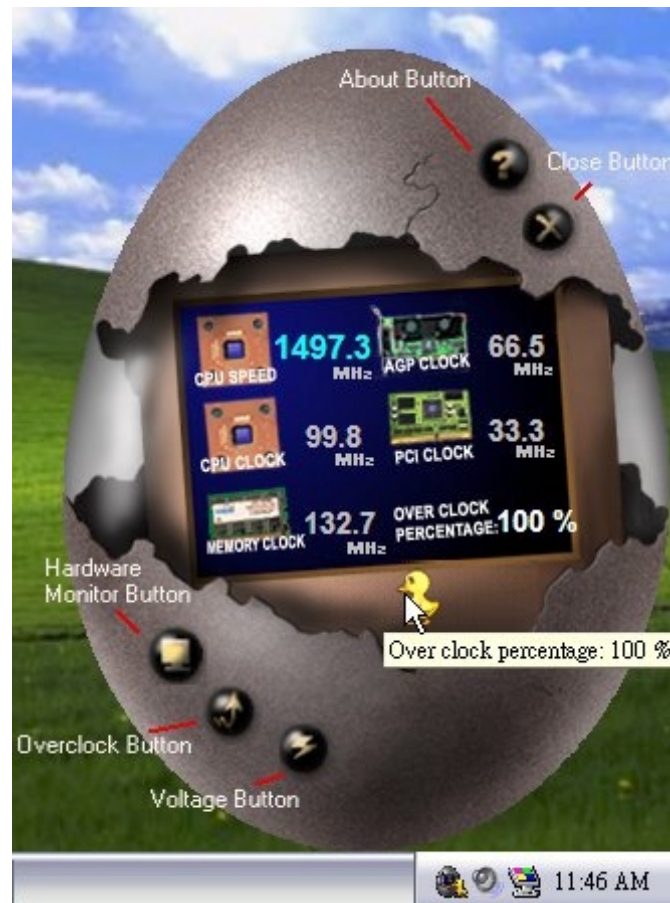
Main Panel contains features as follows:

- a. Display the CPU Speed, CPU external clock, Memory clock, AGP clock, and PCI clock information.
- b. Contains About, Voltage, Overclock, and Hardware Monitor Buttons for invoking respective panels.
- c. With a user-friendly Status Animation, it can represent 3 overclock percentage stages:

Duck walking => overclock percentage from 100% ~ 110 %

Duck running => overclock percentage from 110% ~ 120%

Duck burning => overclock percentage from 120% ~ above



3. Voltage Panel

Click the Voltage button in Main Panel, the button will be highlighted and the Voltage Panel will slide out to up as the following figure.

In this panel, you can decide to increase CPU core voltage and Memory voltage or not. The default setting is "No". If you want to get the best performance of overclocking, we recommend you click the option "Yes".



4. Overclock Panel

Click the Overclock button in Main Panel, the button will be highlighted and the Overclock Panel will slide out to left as the following figure.

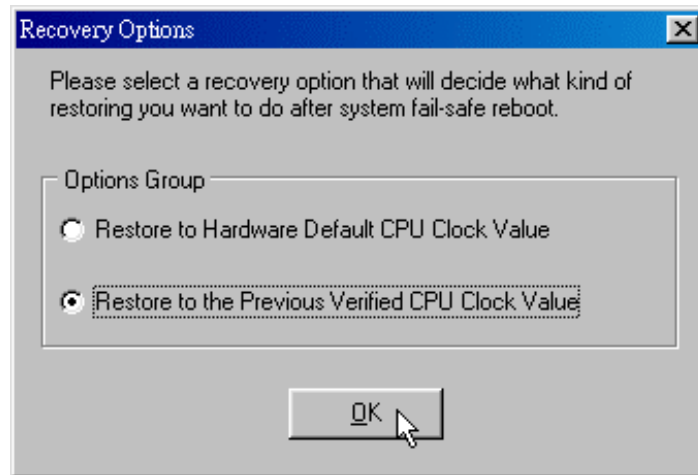


Overclock Panel contains these features:

- a. “-3MHz button”, “-1MHz button”, “+1MHz button”, and “+3MHz button”: provide user the ability to do real-time overclock adjustment.

Warning: Manually overclock is potentially dangerous, especially when the overclocking percentage is over 110 %. We strongly recommend you verify every speed you overclock by click the Verify button. Or, you can just click Auto overclock button and let [WarpSpeeder™] automatically gets the best result for you.

- b. “Recovery Dialog button”: Pop up the following dialog. Let user select a restoring way if system need to do a fail-safe reboot.



- c. “Auto-overclock button”: User can click this button and [WarpSpeeder™] will set the best and stable performance and frequency automatically. [WarpSpeeder™] utility will execute a series of testing until system fail. Then system will do fail-safe reboot by using Watchdog function. After reboot, the [WarpSpeeder™] utility will restore to the hardware default setting or load the verified best and stable frequency according to the Recovery Dialog's setting.
- d. “Verify button”: User can click this button and [WarpSpeeder™] will proceed a testing for current frequency. If the testing is ok, then the current frequency will be saved into system registry. If the testing fail, system will do a fail-safe rebooting. After reboot, the [WarpSpeeder™] utility will restore to the hardware default setting or load the verified best and stable frequency according to the Recovery Dialog's setting.

Note: Because the testing programs, invoked in Auto-overclock and Verify, include DirectDraw, Direct3D and DirectShow tests, the DirectX 8.1 or newer runtime library is required. And please make sure your display card's color depth is High color (16 bit) or True color(24/32 bit) that is required for Direct3D rendering.

5. Hardware Monitor Panel

Click the Hardware Monitor button in Main Panel, the button will be highlighted and the Hardware Monitor panel will slide out to left as the following figure.

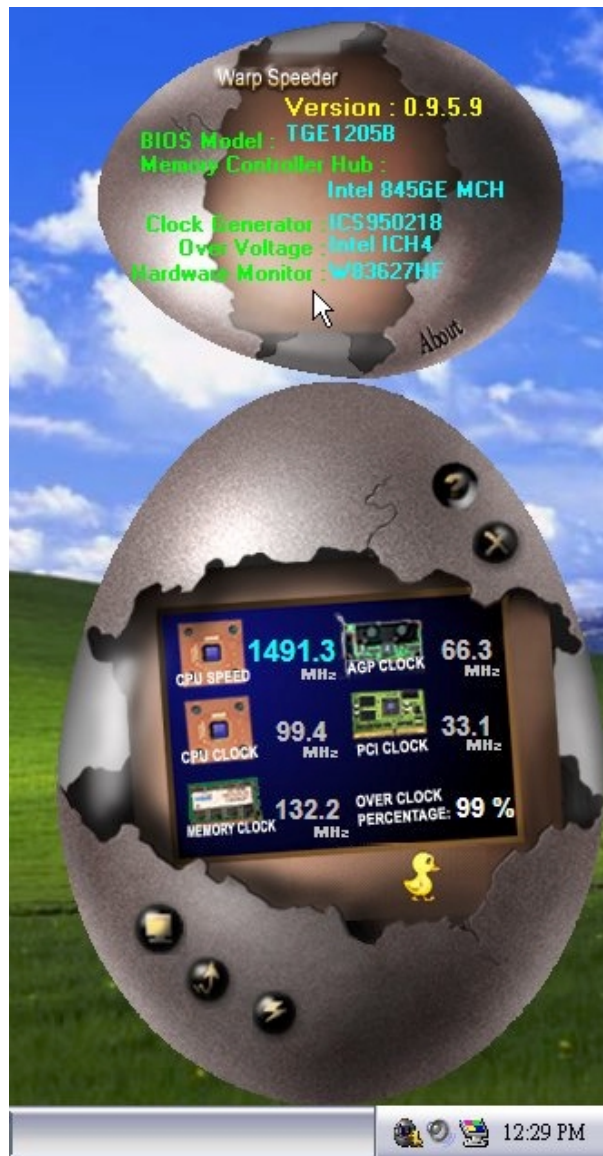
In this panel, you can get the real-time status information of your system. The information will be refreshed every 1 second.



6. About Panel

Click the About button in Main Panel, the button will be highlighted and the About Panel will slide out to up as the following figure.

In this panel, you can get model name and detail information in hints of all the chipset that are related to overclocking. You can also get the mainboard's BIOS model and the Version number of [WarpSpeeder™] utility.



Note: Because the overclock, overvoltage, and hardware monitor features are controlled by several separate chipset, [WarpSpeeder™] divide these features to separate panels. If one chipset is not on board, the correlative button in Main panel will be disabled, but will not interfere other panels' functions. This property can make [WarpSpeeder™] utility more robust.

Trouble Shooting

| PROBABLE | SOLUTION |
|--|---|
| No power to the system at all Power light don't illuminate, fan inside power supply does not turn on. Indicator light on keyboard does not turn on | * Make sure power cable is securely plugged in * Replace cable * Contact technical support |
| PROBABLE | SOLUTION |
| System inoperative. Keyboard lights are on, power indicator lights are lit, hard drive is spinning. | * Using even pressure on both ends of the DIMM, press down firmly until the module snaps into place. |
| PROBABLE | SOLUTION |
| System does not boot from hard disk drive, can be booted from CD-ROM drive. | * Check cable running from disk to disk controller board. Make sure both ends are securely plugged in; check the drive type in the standard CMOS setup. * Backing up the hard drive is extremely important. All hard disks are capable of breaking down at any time. |
| PROBABLE | SOLUTION |
| System only boots from CD-ROM. Hard disk can be read and applications can be used but booting from hard disk is impossible. | * Back up data and applications files. Reformat the hard drive. Re-install applications and data using backup disks. |
| PROBABLE | SOLUTION |
| Screen message says "Invalid Configuration" or "CMOS Failure." | * Review system's equipment . Make sure correct information is in setup. |
| PROBABLE | SOLUTION |
| Cannot boot system after installing second hard drive. | * Set master/slave jumpers correctly. * Run SETUP program and select correct drive types. Call drive manufacturers for compatibility with other drives. |

Dépannage

| PROBLÈME | SOLUTION |
|--|---|
| Pas d'alimentation au système. Les voyants lumineux ne s'allument pas, le ventilateur à l'intérieur du bloc d'alimentation ne se met pas en marche. Le voyant du clavier ne s'allume pas | * Assurez-vous que le câble d'alimentation est bien branché * Remplacez le câble * Contactez le service d'assistance technique. |

| PROBLÈME | SOLUTION |
|---|--|
| Le système ne fonctionne pas. Les voyants du clavier sont allumés, les voyants de l'alimentation aussi, le disque dur tourne. | * En exerçant une pression uniforme sur les deux extrémités du DIMM, poussez le module vers le bas jusqu'à ce qu'il s'enclenche. |

| PROBLÈME | SOLUTION |
|--|--|
| Le système ne se réinitialise pas du disque dur, réinitialisation possible depuis le lecteur CD-ROM. | * Vérifiez le câble du disque à la carte du contrôleur de disque. Assurez-vous que les deux extrémités sont bien branchées ; vérifiez le type de lecteur dans la configuration standard de CMOS. * Il est très important d'effectuer des sauvegardes du disque dur. Les disques durs peuvent tomber en panne à n'importe quel moment. |

| PROBLÈME | SOLUTION |
|--|---|
| Le système ne se réinitialise que depuis le CD-ROM. Le disque dur peut être lu et les applications sont utilisables mais il est impossible d'effectuer de réinitialisation depuis le disque dur. | * Effectuez une sauvegarde des fichiers des données et d'application. Reformatez le disque dur. Ré-installez les applications et les données sauvegardées sur les disques de secours. |

| PROBLÈME | SOLUTION |
|--|---|
| Un message s'affiche indiquant que la configuration n'est pas valide ou qu'il y a une panne du CMOS. | * Vérifiez l'équipement du système. Assurez-vous que les informations de la configuration sont correctes. |

| PROBLÈME | SOLUTION |
|---|---|
| Impossible de réinitialiser le système après l'installation d'un deuxième disque dur. | * Réglez les cavaliers maître/esclave correctement. * Exécutez le programme SETUP et sélectionnez les types de lecteur. Contactez les fabricants pour toute question de compatibilité avec les autres disques. |

1/02/2004